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	08/327.887 <u>10/24/94</u> KIM	9983.3USC
		BILODEANINEL
	D1M1/0926	- DIGUVENU,-1
1	MICHAEL D SCHUMANN	
1	MERCHANT GOULD SMITH EDELL WELTER	ART UNIT PAPER NUMBER
8	& SCHMIDT 3100 NORWEST CENTER	\supset
5	90 SOUTH SEVENTH STREET	1107
1	MINNEAPOLIS MN 55402-4131	DATE MAILED.
		09/26/98
	Below is a communication from the EXAMINER in charge of this	
	COMMISSIONER OF PATENTS AND TRADEMARKS	
	ADVISORY ACTION	
DA.H.	E PERIOD FOR RESPONSE:	
~ _		
,,,,,,	is extended to full G Continues to full	from the date of the final rejection
미니	expires three months from the date of the final rejection or as of the mallin event however, will the statutory period for the response expire later than	g date of this Advisory Action, whichever is later. In a six months from the date of the final rejection.
	Any extension of time must be obtained by filing a petition under 37 CFR. The date on which the response, the petition , and the fee have been filed	1.136(a), the proposed response and the appropriate t
	purposes of determining the period of extension and the corresponding an 1.17 will be calculated from the date of the originally set shortened statuto.	nount of the fee. Any extension fee pursuant to 37 CF
□ Ap	pellant's Brief is due in accordance with 37 CFR 1.192(a).	
- /-	plicant's response to the final rejection, filed 9/4/46 has been	considered with the following effect, but it is not deem
	place the application in condition for allowance.	considered with the following effect, but it is not deem
1.	The proposed amendments to the claim and /or specification will not be en	tered and the final rejection stands because:
	 a. There is no convincing showing under 37 CFR 1.116(b) why the propresented. 	posed amendment is necessary and was not earlier
	b. [] They raise new issues that would require further consideration and/o	or search. (See Note).
	c. They raise the issue of new matter. (See Note).	
	 They are not deemed to place the application in better form for appapeal. 	eal by materially reducing or simplifying the issues for
	e. They present additional claims without cancelling a corresponding n	number of finally rejected claims.
	NOTE:	
2.	the non-allowable claims.	d if submitted in a separately filed amendment cancell
3.	Upon the filing an appeal, the proposed amendment will be entered be as follows:	will not be entered and the status of the claims will
	Claims allowed:	_
	Claims objected to:	-
	Claims rejected:	_
	However;	
	However; Applicant's response has overcome the following rejection(s):	
	Applicant's response has overcome the following rejection(s):	
∕ھر.⁴		ut does not overcome the rejection because
4. / Z′ 5. □	Applicant's response has overcome the following rejection(s):	

PTOt -303 (REV. 5-89)

☐ Other

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Applicant's arguments filed 9/4/96 have been fully considered but they are not persuasive.

Applicant argues (page 2) that Gutierrez discloses a four step process which requires the deposition of a seed material instead of a two step process.

While the embodiment in Guitierrez of Figures 1-6 does display the deposition of a seed layer material, the embodiment of Figures 7 and 8 does not require the deposition of a seed material since the silicon surface (114 and 116) acts a seed for the first plug (226 and 228) deposition (col 5, lines 11-16).

Applicant argues (page 3) that the Gutierrez hole filling process is not one step since the intial reaction slows and stops. The examiner admits that the process of Gutierrez requires that the deposition gas be changed during the deposition. However, the instantly claimed invention only requires that the holes be filled entirely with a metal. That limitation is met by the process of Gutierrez.

Applicant argues (page 4) that the Guttierez process disadvantageously causes silicon to be consumed during the tungsten deposition. However, the claimed invention does not preclude silicon consumption and Gutierez teaches making a functional device.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Thomas Bilodeau whose telephone number is (703) 308-1090. The examiner can normally be reached on Monday through Friday from 6:30 AM-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling, can be reached on (703) 308-3325. The fax numbers for this group are (703)305-3599 and (703)305-3600.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0661.

John Niebling

Supervisory Primary Examiner

Art Unit 1107

Thomas Bilodeau September 18, 1996